**Create a SSL Certificate**

Run the following command to generate the certificate to make Tomcat support SSL. Generate Certificate keytool -genkey -alias tomcat -keyalg RSA -keystore /opt/tomcat/keystore/tomcat

The tool is going to ask some questions to feed the certificate. The certificate is going to be in the folder /opt/tomcat/keystore/tom- cat and the name of the certificate is tomcat. You can check the certificate with the command keytool -list -keystore

/opt/tomcat/keystore/tomcat.

**Use the certificate in Tomcat**

Edit the file /opt/tomcat/conf/server.xml and add an SSL connector. Connector

<Connector port="8443" protocol="org.apache.coyote.http11.Http11NioProtocol" maxThreads="150" SSLEnabled="true" scheme="https" secure="true" clientAuth="false" sslProtocol="TLS"

keystoreFile="C:\Java\apache-tomcat-8.0.23\keystore\tomcat" keystorePass="changeit" />

Restart tomcat and you are done. Now you can run your Applications under HTTPS in Tomcat.

**Complete source code**

tomcat-users.xml

<?xml version=’1.0’ encoding=’utf-8’?>

<tomcat-users xmlns="https://tomcat.apache.org/xml" xmlns:xsi="https://[www.w3.org/2001/XMLSchema-instance](http://www.w3.org/2001/XMLSchema-instance)" xsi:schemaLocation="https://tomcat.apache.org/xml tomcat-users.xsd" version="1.0">

<user username="admin" password="admin" roles="manager-gui,admin-gui"/>

</tomcat-users>

server.xml

<?xml version=’1.0’ encoding=’utf-8’?>

<Server port="8005" shutdown="SHUTDOWN">

<Listener className="org.apache.catalina.startup.VersionLoggerListener"/>

<Listener SSLEngine="on" className="org.apache.catalina.core.AprLifecycleListener"/>

<Listener className="org.apache.catalina.core.JreMemoryLeakPreventionListener"/>

<Listener className="org.apache.catalina.mbeans.GlobalResourcesLifecycleListener"/>

<Listener className="org.apache.catalina.core.ThreadLocalLeakPreventionListener"/>

<GlobalNamingResources>

<Resource auth="Container" description="User database that can be updated and saved" *›* factory="org.apache.catalina.users.MemoryUserDatabaseFactory" name="UserDatabase" *›* pathname="conf/tomcat-users.xml" type="org.apache.catalina.UserDatabase"/>

*←*

*←*

</GlobalNamingResources>

<Service name="Catalina">

<Connector connectionTimeout="20000" port="8080" protocol="HTTP/1.1" redirectPort="8443 *›*

*←*

"/>

<Connector port="8443" protocol="org.apache.coyote.http11.Http11NioProtocol" maxThreads="150" SSLEnabled="true" scheme="https" secure="true" clientAuth="false" sslProtocol="TLS"

keystoreFile="C:\Java\apache-tomcat-8.0.23\keystore\tomcat" keystorePass="changeit" />

<Connector port="8009" protocol="AJP/1.3" redirectPort="8443"/>

<Engine defaultHost="localhost" name="Catalina">

<Realm className="org.apache.catalina.realm.LockOutRealm">

<Realm className="org.apache.catalina.realm.UserDatabaseRealm" resourceName=" *›*

*←*

UserDatabase"/>

</Realm>

<Host appBase="webapps" autoDeploy="true" name="localhost" unpackWARs="true">

<Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs" *›*

*←*

pattern="%h %l %u %t "%r" %s %b" prefix="localhost\_access\_log" suffix=".txt"/>

</Host>

</Engine>

</Service>

</Server>